

Grade 4 Mathematics

Constructed Response
Scoring Guides
Winter 2000

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Winter 2000 Grade 4 MEAP Mathematics Scoring Guides

These scoring guides and annotated papers are provided to help you evaluate and score the constructed-response items on the Winter 2000 MEAP mathematics test. For each item a rubric and an exemplar answer are given. Student papers are provided to illustrate the rubric. The annotation are on a separate page, so that the student papers can be copied and scored as part of training.

The scoring guides provided here represent only one possibility. You may decide to create your own scoring rubric. You may want to require that spelling and grammar are part of scoring, as well as labeling (units and graphs), and showing all work. Feel free to adjust and revise the scoring guide to fit your needs.

General Recommendations and Guidelines

- Studying the sample student responses and annotations will help you understand the essence of what is expected at each score point for a particular question. Keep in mind that these sample student responses represent only a few of the many possible responses for a given score point.
- To ensure the accuracy and consistency of your scoring:
 - 1. Continually review the scoring rubric and the sample student papers, especially when you are in doubt about a particular response.
 - 2. Do not judge one student's paper against another. Instead, apply the same objective criteria to each paper by evaluating the response in terms of the scoring guide.
 - 3. It is advisable to conceal student names when scoring.
- 4. Review papers you scored earlier in the process to make sure you are using the same criteria.

Grade 4 - Favorite Fast Foods Scoring Rubric

4 POINTS Response contains correct tally, frequency chart, graph and conclusion.

3 POINTS Response is mostly correct but contains a minor error.

OR Response contains a counting error in the table; graph matches table; correct conclusion.

2 POINTS Response contains the beginning of an appropriate strategy with a correct table and graph but an incorrect conclusion. Student needs more instruction in order to draw a valid conclusion.

1 POINT Response is mostly incorrect but student has attempted a strategy and shows minimal understanding of the concept; frequency table and graph contain counting errors and conclusion shows minimal understanding of surveys and graphs.

OR Response contains correct table and graph but omits conclusion.

O POINTS

Response demonstrates no strategy nor understanding of surveys and graphs; frequency table and graph contain major errors and conclusion might simply restate the problem.

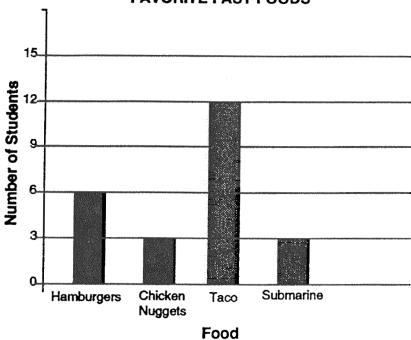
Note: If response contains counting error(s) in table with same error(s) relflected in graph, student is penalized once only for error(s) in table.

Grade 4 - Favorite Fast Foods Exemplar

FAVORITE FAST FOODS

| Food | Tally | Frequency |
|-----------------|------------|-----------|
| Hamburger | 7441 | 6 |
| Chicken Nuggets | /// | 3 |
| Taco | 744 744 11 | 12 |
| Submarine | /// | 3 |

FAVORITE FAST FOODS



The conclusion should rank the foods or note that tacos were the favorite food and chicken nuggets and submarines were tied for least liked foods. The students should not simply reiterate the frequencies. The conclusion should show they can interpret the results of a survey and a graph.

The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITE FAST FOODS

| Name | Favorite | Name | Favorite | Name | Favorite |
|----------|-----------|---------|-----------|-----------|---|
| Lavonne | Hamburger | Dylan | Taco | Mike | Chicken Nuggets Submarine Chicken Nuggets Chicken Nuggets Taco Submarine Taco Taco Taco |
| Yousif | Taco | Latasha | Submarine | Timmy | |
| Kenya | Taco | Crystal | Taco | Tiffany | |
| Jennifer | Hamburger | Rande | Taco | Rudolph | |
| Amber | Taco | Billy | Hamburger | Samir | |
| Faith | Hamburger | Mary | Taco | Teddy | |
| Betsy | Taco | Kansas | Hamburger | Catherine | |
| Jeff | Hamburger | David | Taco | Kristen | |

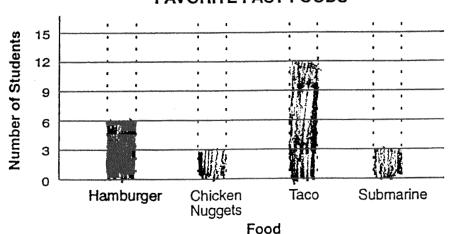
FAVORITE FAST FOODS



| Food | Tally | Frequency |
|-----------------|--------|-----------|
| Hamburger | 1441 | 6 |
| Chicken Nuggets | 111 | 3 |
| Taco | 471411 | 12 |
| Submarine | 111 | 3 |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.

FAVORITE FAST FOODS



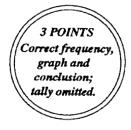
My conclusion My conclusion is to kids liked the taro so its number one hamburgers were second, and shicken nuggets and a submarine are tied.

The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITE FAST FOODS

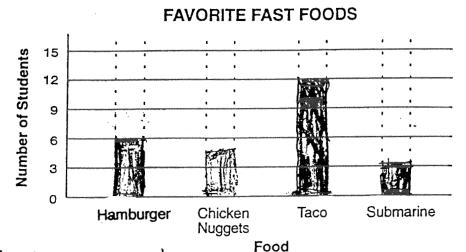
| Name | Favorite | Name | Favorite | Name | Favorite |
|----------|---|---------|-----------|-----------|-----------------|
| Lavonne | Hamburger Taco Taco Hamburger Taco Hamburger Taco Hamburger | Dylan | Taco | Mike | Chicken Nuggets |
| Yousif | | Latasha | Submarine | Timmy | Submarine |
| Kenya | | Crystal | Taco | Tiffany | Chicken Nuggets |
| Jennifer | | Rande | Taco | Rudolph | Chicken Nuggets |
| Amber | | Billy | Hamburger | Samir | Taco |
| Faith | | Mary | Taco | Teddy | Submarine |
| Betsy | | Kansas | Hamburger | Catherine | Taco |
| Jeff | | David | Taco | Kristen | Taco |

FAVORITE FAST FOODS



| Food | Tally | Frequency |
|-----------------|-------|-----------|
| Hamburger | 9 | |
| Chicken Nuggets | 3 | |
| Тасо | 17 | |
| Submarine | 3 | |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.



My conclusion Halfof the Classicke Taco

The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITE FAST FOODS

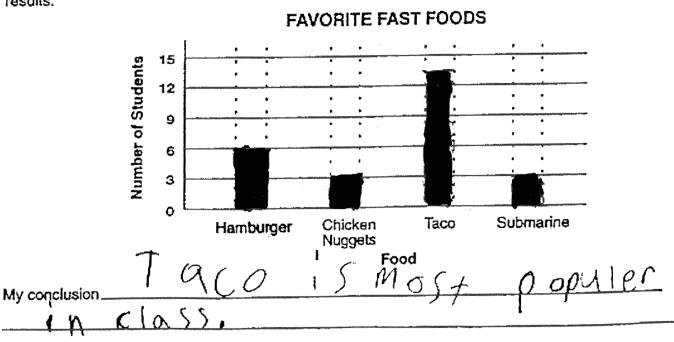
| Name | Favorite | Name | Favorite | Name | Favorite |
|----------|-----------|---------|-----------|-----------|--|
| Lavonne | Hamburger | Dylan | Taco | Mike | Chicken Nuggets Submarine Chicken Nuggets Chicken Nuggets Taco Submarine Taco Taco |
| Yousif | Taco | Latasha | Submarine | Timmy | |
| Kenya | Taco | Crystal | Taco | Tiffany | |
| Jennifer | Hamburger | Rande | Taco | Rudolph | |
| Amber | Taco | Billy | Hamburger | Samir | |
| Faith | Hamburger | Mary | Taco | Teddy | |
| Betsy | Taco | Kansas | Hamburger | Catherine | |
| Jeff | Hamburger | David | Taco | Kristen | |

FAVORITE FAST FOODS



| Food | Taily | Frequency |
|-----------------|-------|-----------|
| Hamburger | M | So |
| Chicken Nuggets | | 3 |
| Тасо | 14444 | 13 |
| Submarine | | 3 |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.



The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITÉ FAST FOODS

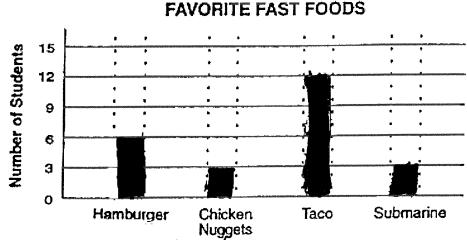
| Name | Favorite | Name | Favorite | Name | Favorite |
|---|--|--|---|---|---|
| Lavonne Youslf Kenya Jennifer Amber Faith Betsy Jeff | Hamburger Taco Taco Hamburger Taco Hamburger Taco Hamburger | Dylan Latasha Crystal Rande Billy Mary Kansas David | Taco Submarine Taco Taco Hamburger Taco Hamburger | Mike Timmy Tiffany Rudolph Samir Teddy Catherine Kristen | Chicken Nuggets Submarine Chicken Nuggets Chicken Nuggets Taco Submarine Taco Taco Taco |

FAVORITE FAST FOODS



| Food | Tally | Frequency |
|-----------------|----------------------|-----------|
| Hamburger | M | 6 |
| Chicken Nuggets | <i> </i> | 3 |
| Taco | MAMI | 12 |
| Submarine | | 3 |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.



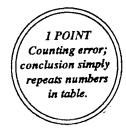
My conclusion More people like homburgers
Then any thing else

The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITE FAST FOODS

| Name | Favorite | Name | Favorite | Name | Favorite |
|----------|---|---------|-----------|-----------|-----------------|
| Lavonne | Hamburger Taco Taco Hamburger Taco Hamburger Taco Hamburger | Dylan | Taco | Mike | Chicken Nuggets |
| Yousif | | Latasha | Submarine | Timmy | Submarine |
| Kenya | | Crystal | Taco | Tiffany | Chicken Nuggets |
| Jennifer | | Rande | Taco | Rudolph | Chicken Nuggets |
| Amber | | Billy | Hamburger | Samir | Taco |
| Faith | | Mary | Taco | Teddy | Submarine |
| Betsy | | Kansas | Hamburger | Catherine | Taco |
| Jeff | | David | Taco | Kristen | Taco |

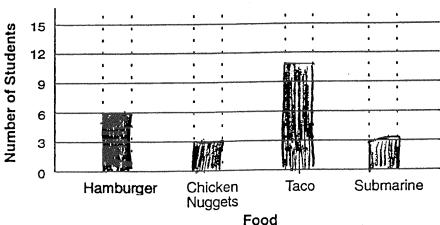
FAVORITE FAST FOODS



| Food | Tally | Frequency |
|-----------------|---------|-----------|
| Hamburger | HH1 | 6 |
| Chicken Nuggets | 111 | 3 |
| Taco | HT411 | |
| Submarine | / / / / | 3 |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.





My conclusion 6 like Hamburger 3 like Chichennyggets
1/ like Jaco 3 like Submarune

The table below shows the results of a fourth grade survey on favorite fast foods. Complete the tally and frequency table.

FAVORITE FAST FOODS

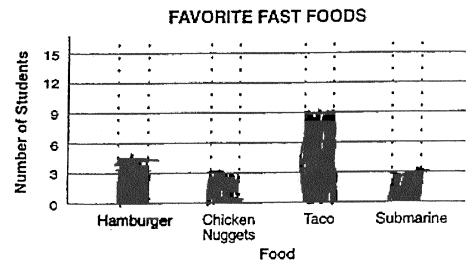
| Name | Favorite | Name | Favorite | Name | Favorite |
|----------|-----------|---------|--|-----------|-----------------|
| Lavonne | Hamburger | Dylan | Taco Submarine Taco Taco Hamburger Taco Hamburger Taco | Mike | Chicken Nuggets |
| Yousif | Taco | Latasha | | Timmy | Submarine |
| Kenya | Taco | Crystal | | Tiffany | Chicken Nuggets |
| Jennifer | Hamburger | Rande | | Rudolph | Chicken Nuggets |
| Amber | Taco | Billy | | Samir | Taco |
| Faith | Hamburger | Mary | | Teddy | Submarine |
| Betsy | Taco | Kansas | | Catherine | Taco |
| Jeff | Hamburger | David | | Kristen | Taco |

FAVORITE FAST FOODS



| Food | Tally | Frequency |
|-----------------|---------|-----------|
| Hamburger | MHT: () | 14 |
| Chicken Nuggets | 111 | 3 |
| Taco | TOWN | a |
| Submarine | | 13 |

Use the frequency table to complete the bar graph and write a conclusion about the survey results.



My conclusion_____

Grade 4 - Charity's Schedule Scoring Rubric

- 4 POINTS Response includes all activities listed in table; makes sensible use of time. Time adds up to 5 hours 30 minutes. Number of minutes in first column matches time stated in second column. Times are consecutive.
- 3 **POINTS** Response is complete and shows significant understanding of time but contains minor errors.
- 2 POINTS Response is complete and shows some understanding of time but contains some errors requiring instruction prior to being able to complete the chart correctly.
- 1 POINT Response shows minimal understanding of time and contains serious errors requiring significant instruction prior to being able to complete the chart correctly.
- **0 POINTS** Response shows no understanding of time.

Grade 4 - Charity's Schedule Exemplar

Response must include all activities listed in the table and make sensible use of time. The time must add up to 5 hours 30 minutes. The number of minutes in the first column (Length) must match the time stated in the second column (Time). The times must be consecutive. There are many correct answers. Here is one example.

| Length | Time | Activity |
|-------------|-------------------|----------------------|
| 1 hour | 7:00-8:00 a.m. | Get ready for school |
| 15 minutes | 8:00-8:15 a.m. | Travel to school |
| 7 hours | 8:15 a.m3:15 p.m. | At school |
| 15 minutes | 3:15-3:30 p.m. | Travel home |
| 30 minutes | 3:30-4:00 | Snack |
| 1 hour | 4:00-5:00 | Homework |
| 30 minutes | 5:00-5:30 | Chores |
| 30 minutes | 5:30-6:00 | Time with friends |
| 30 minutes | 6:00-6:30 | Dinner |
| 30 minutes | 6:30-7:00 | Computer games |
| 1 hr 30 min | 7:00-8:30 | Television viewing |
| 30 minutes | 8:30-9:00 | Get ready for bed |
| | 9:00 p.m. | Bedtime |

Charity arrives home from school at 3:30 p.m. She must plan a schedule of her after school activities. She wants to complete the following activities before she goes to bed at 9:00 p.m.

| Charity's Activities | |
|----------------------|--|
| Snack | |
| Homework | |
| Chores | |
| Time With Friends | |
| Dinner | |
| Computer Games | |
| Television Viewing | |
| Get Ready for Bed | |



Help Charity by making a time schedule she could use.

Complete the chart by showing the activity, the time of the activity and the length of time she should spend on each activity.

| Length | Time | Activity |
|---------------|--------------------|----------------------|
| 1 hour | 7:00 - 8:00 a.m. | Get ready for school |
| 15 minutes | 8:00 - 8:15 a.m. | Travel to school |
| 7 hours | 8:15 a.m 3:15 p.m. | At school |
| 15 minutes | 3:15 - 3:30 p.m. | Travel home |
| 30 minutes. | 3:30-4:00 | Samale A |
| hour | 4:00-5:00 | Homework |
| 30 minutes. | 5.10:5:30 | chose |
| 30 minute | 5:30 - 6:00 | time with free to |
| 30 Menutes | 6:00-6:30 | Dinner |
| 30 minutes | 6:30-7:00 | Computer garros |
| 1 hour 30 min | 7:00-8:30 | Telepristore wereing |
| 30 minutes | 8:30-9700 | Det ready for bet |
| - | 9:00 p.m. | Bedtime |

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Charity's Activities

Snack
Homework
Chores
Time With Friends
Dinner
Computer Games
Television Viewing
Get Ready for Bed



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| Length | Time | Activity |
|-----------------|--------------------|----------------------|
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| 15 minutes | 8:00 - 8:15 a.m. | Travel to school |
| 7 hours | 8:15 a.m 3:15 p.m. | At school |
| 15 minutes | 3:15 - 3:30 p.m. | Travel home |
| 30 minutes | 3,130 400 | shack |
| Hour | 4100 5:00 | Home work |
| 30 Minutes | 5:00 530 | Chorse |
| 20 Millytes | 5.30 6:00 | time with prehals |
| Ihour | 6120 7:60 | Diyier. |
| 30 maytes | 7100 7:30 | conputer 6ames |
| 11: kant 30 min | 730 F:30 | telve view view |
| 30 minutes | P:30 4:00 | Get ready for bid |
| | 9:00 p.m. | Bedtime |

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Charity's Activities

Snack
Homework
Chores
Time With Friends
Dinner
Computer Games
Television Viewing
Get Ready for Bed

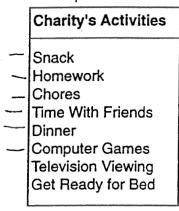


Help Charity by making a time schedule she could use.

Complete the chart by showing the activity, the time of the activity and the length of time she should spend on each activity.

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| 7 hours | 8:15 a.m 3:15 p.m. | At school |
| 15 minutes | 3:15 - 3:30 p.m. | Travel home |
| 30', min | 330-400 | Snach |
| 30min | 4'00-4',30 | HOMZWOCK |
| 100030 min | 430-500 | Choses |
| Thou 30min | 5,00-6,30 | Time With Friends |
| 1hou30 min | 8:30-700 | Dinner |
| 1 hou 30min | 7100-780 | computergames |
| Iha | 7130-830 | Televiso Nizuina |
| 1 hou 30 min | 8130-9100 | Gitsidy For bed |
| | 9:00 p.m. | Bedtime |

Charity arrives home from school at 3:30 p.m. She must plan a schedule of her after school activities. She wants to complete the following activities before she goes to bed at 9:00 p.m.





Help Charity by making a time schedule she could use.

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| 10 milites | 3:45 - 355 | Snack |
| 1 hour | 4:00-5:00 | Homework |
| 30 minutes | 5:00-5:30 | Chores |
| 1 hour | 5:30-6:30 | friends |
| 30 minute | 56:30-1.00 | dinner |
| 15 minutes | 7:00-7:15 | com Puter |
| | 7:15-8:30 | television |
| 25 minutes | 8:30 - 8:55 | Get Ready |
| | 9:00 p.m. | Bedtime / |

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Charity's Activities

Snack
Homework
Chores
Time With Friends
Dinner
Computer Games
Television Viewing
Get Ready for Bed



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| Length | Time | Activity | |
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| 7 hours | 8:15 a.m 3:15 p.m. | At school | |
| 15 minutes | 3:15 - 3:30 p.m. | Travel home | |
| 30min | 400 | Snack | |
| 30 min | 4630 | homework | |
| Thour | 500 | chores | |
| lhour | 600 | Time with Frien | \$ |
| 30 min | 630 | Pinner | |
| Thour | 1.00 | copuler game | |
| 30min | 1.30 | TellFiconview | |
| 11 hour | 8:30 | get read For bed | |
| | 9:00 p.m. | Bedtime | |

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Snack
Homework
Chores
Time With Friends
Dinner
Computer Games
Television Viewing
Get Ready for Bed



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Complete the chart by showing the activity, the time of the activity and the length of time she should spend on each activity.

| Length | Time | Activity | |
|------------|--------------------|----------------------|----|
| 1 hour | 7:00 - 8:00 a.m. | Get ready for school | |
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| 7 hours | 8:15 a.m 3:15 p.m. | At school | |
| 15 minutes | 3:15 - 3:30 p.m. | Travel home | |
| 13minu | 194100 - 4:15 | Snack | |
| BOMIN | 5:005:30 | Home Work | |
| IGOVI | 6:200 | chores | |
| 3 Min | 7:000 7:00 | + kme with friends | |
| 3941 | 81,30 9,00 | DINGER | |
| 15 Min | 10:00 1030 | COMP Games | |
| 15 min | 11:00 11:30 | TV | ļ |
| | 12:00 12:13 | o Get ready for | be |
| | 9:00 p.m. | Bedtime | |